

FIGURE 1

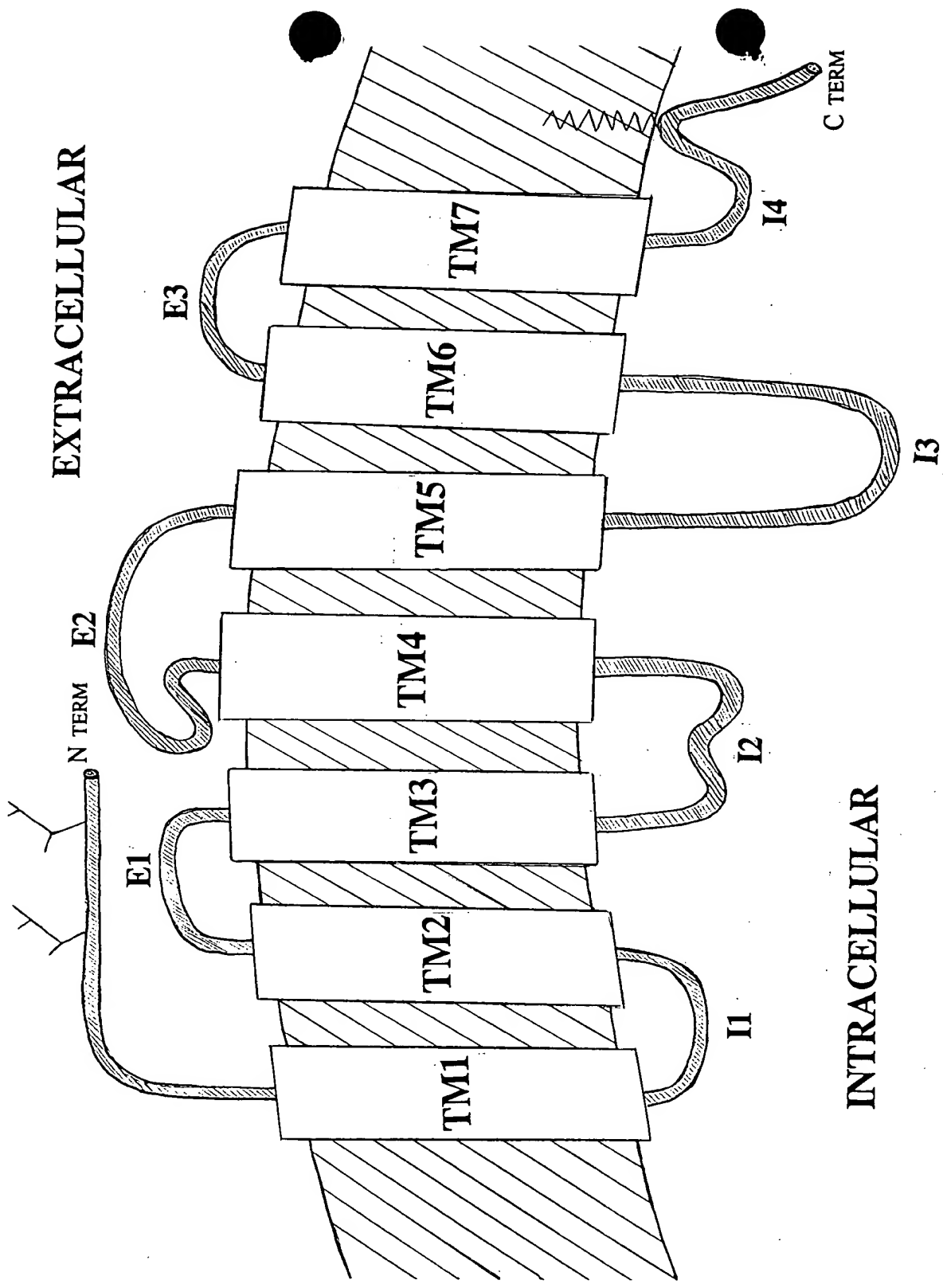
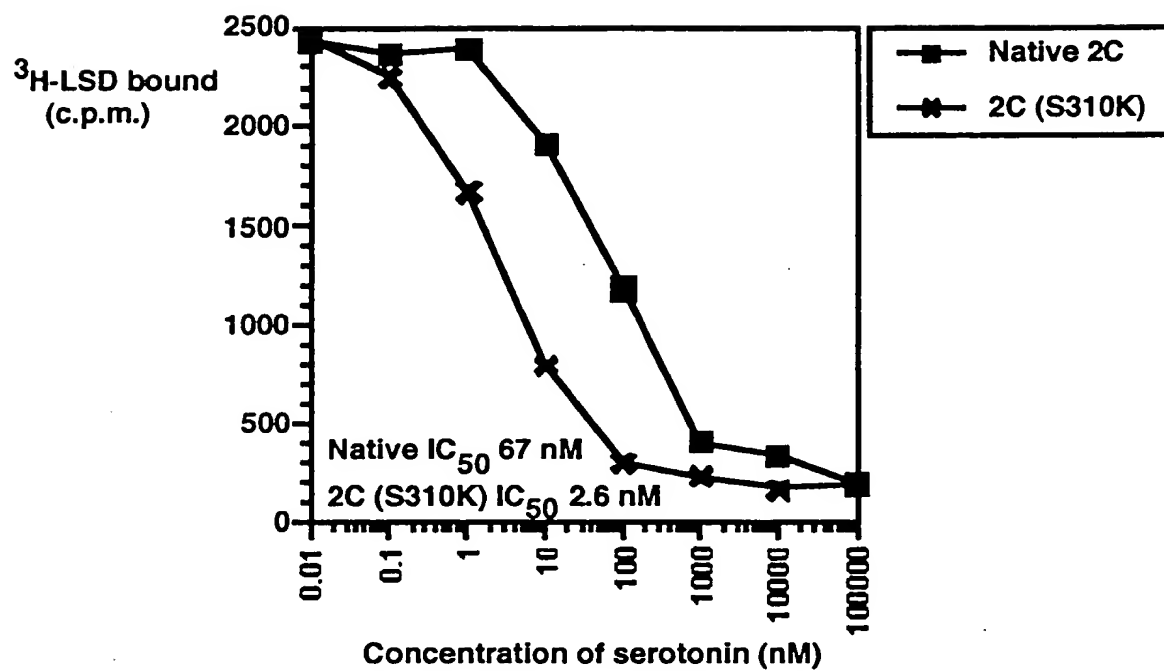


FIGURE 2

Effect/Disease	Receptor	Auto-Antibody	Over Expression	Naturally Constitutively Active	Mutated Position	Point/Cassette Mutation	Ref.
Graves' Disease	Thyrotropin	X					1
Thyroid Adenoma	Thyrotropin				3rd Int. Loop	D619G, D619C A623I	2
Non-Autoimmune Hyperthyroidism	Thyrotropin				TM3 & TM7	V509A, C672Y	3
Constitutive Activation	Thyrotropin				Carboxy Tail	Truncation	4
Male Precocious Puberty	Lutropin				TM6	D578G/Y	5
Cardiomyopathy	Adrenergic B1	X					6
Hypertension	Adrenergic 1A	X					7
Constitutive Coupling/Gs	Beta 2 Adrenergic				3rd Int. Loop		8
Constitutive IP3 Release	Alpha 1B Adrenergic				3rd Int. Loop	All Amino Acids At A293	9
Constitutive Coupling/Gi	Alpha 2A Adrenergic				3rd Int. Loop TM6	T348C/E/K	10
Constitutive IP3 Release	m5 Muscarinic				TM2/TM6		11
Constitutive Coupling Gi	EP3 Prostaglandin				Carboxy Tail		12
Constitutive IP3 Release	Thrombin				2nd Ext. Loop		13
Constitutive Activation	STE3 Pheromone				3rd Int. Loop		14
Retinitis Pigmentosa	Rhodopsin				TM7	K296E/M	15
Schizophrenia	Dopamine D4		X				16
Major Depression	Serotonin 5HT2A		X				17
Constitutive Activation	Serotonin 5HT2A				3rd Int. Loop	C322K	17
Constitutive Activation	Serotonin 5HT2C		X	X			18
Constitutive Activation	Serotonin 5HT2C				3rd Int. Loop	S312K/F	18
Constitutive Activation	(RDC8) Adenosine				2nd Ext. & 3rd. Int. Loops		19
Jansen's Disease	Parathyroid Hormone (PTH)					H223R, T410P	20
Hypoparathyroidism	Calcium Sensing				TM1, Ext. N-terminal	E128A, T151M	21
Kaposi's Sarcoma	Herpes Virus			X			22
Constitutive Activation	m2 Muscarinic				3rd Int. Loop	VTIL[A(1-4)] Insertion Cassette	23
Constitutive Activation	Metabotropic Glutamate				Carboxy Tail	Alternate Splicing	24
Constitutive Activation	Bradykinin B2	X					25
Mu Opioid				Agonist Induced			26
Constitutive Activation	Dopamine D1B			High Basal			27
Pigmentation	MSH				TM2, 1st Int. & Frame Shift	S69L, E69K L98P, H183Q	28
Constitutive Activation	ACCA			X			29
Constitutive Activation	Muscarinic m1-m4		X	X			30
Constitutive Activation	Muscarinic		Over Express. Gq				31
Constitutive Role	Histamine H1				TM3	Asp116	32

FIGURE 3

FIGURE 4



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FIGURE 5

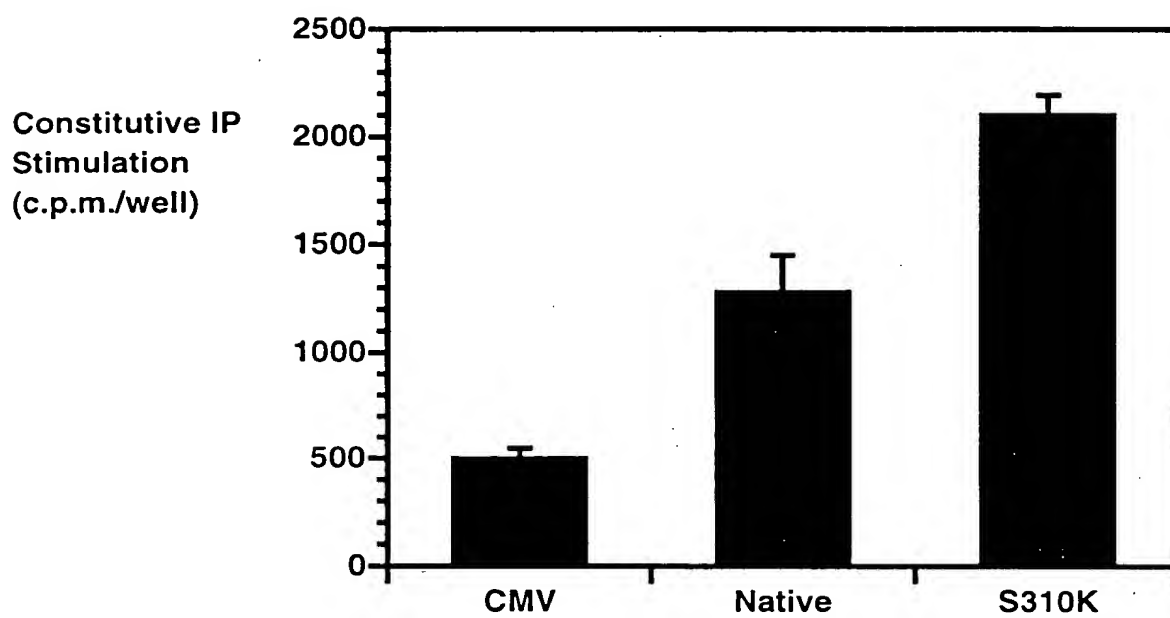


FIGURE 6

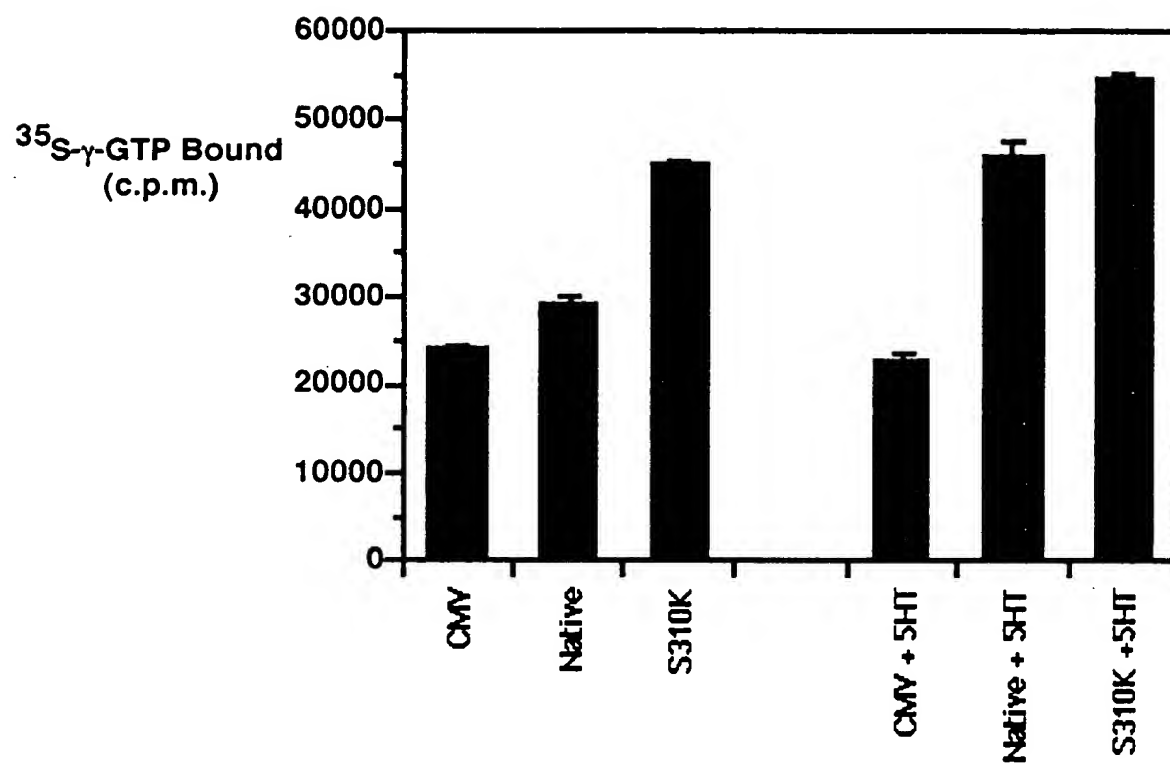
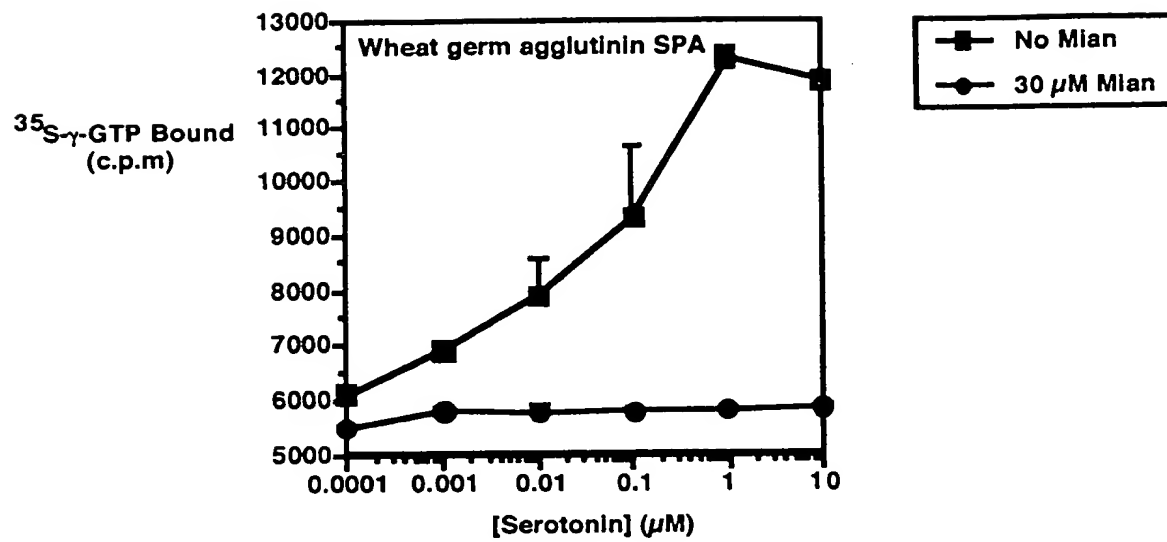
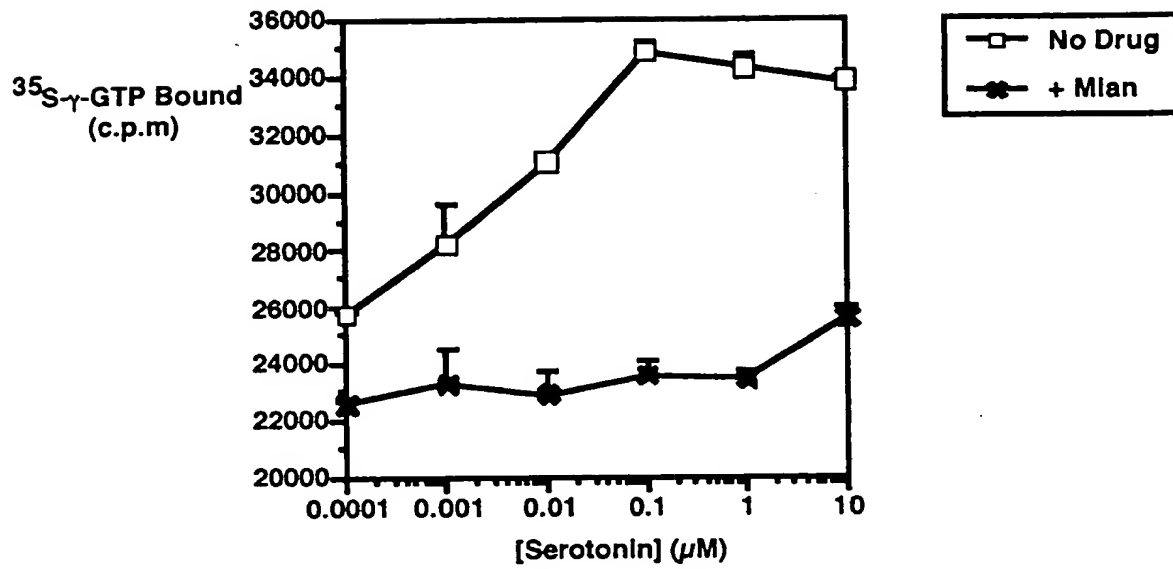


FIGURE 7



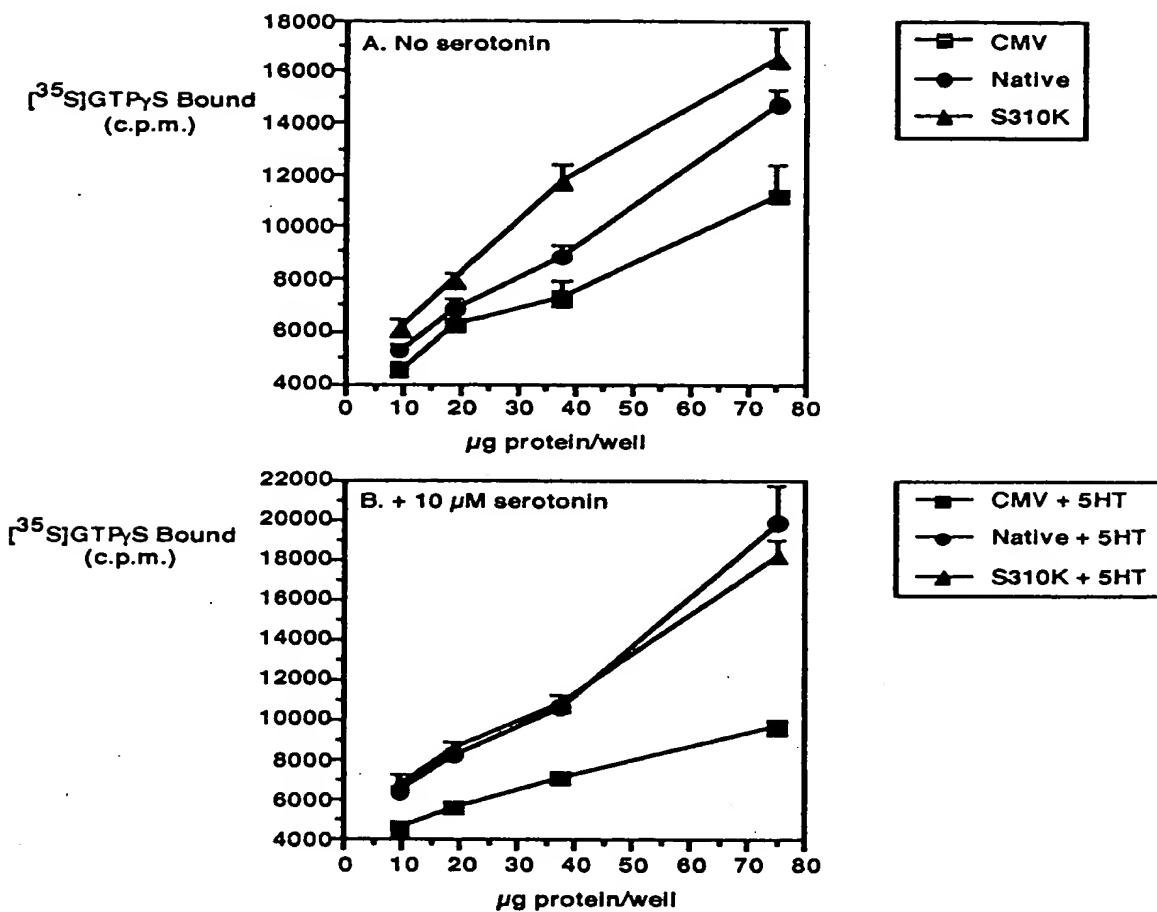
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FIGURE 8



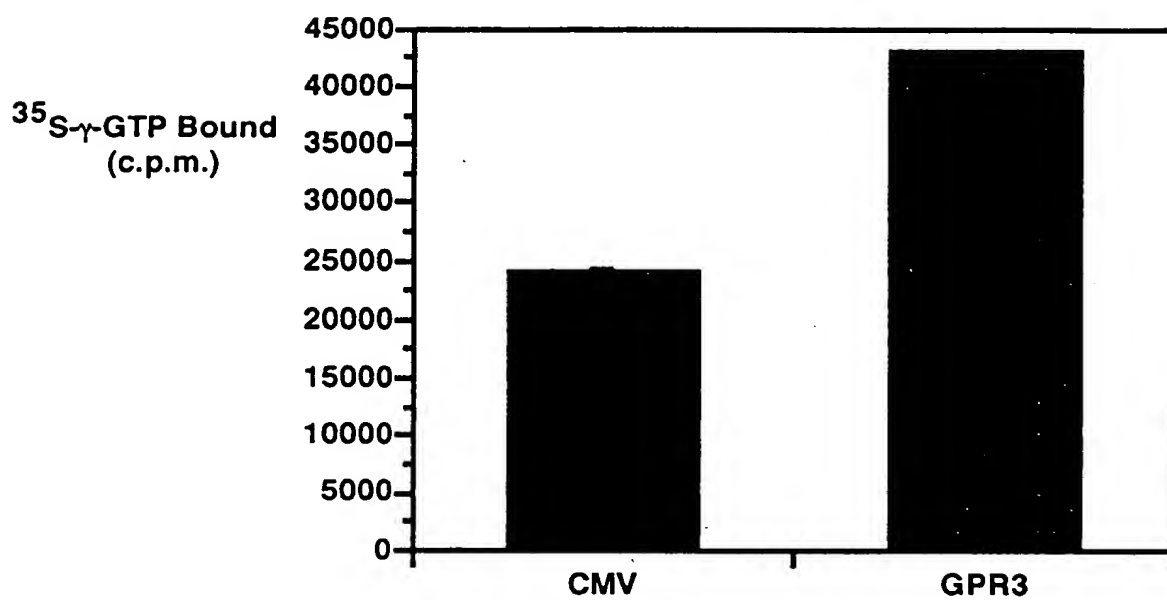
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FIGURE 9



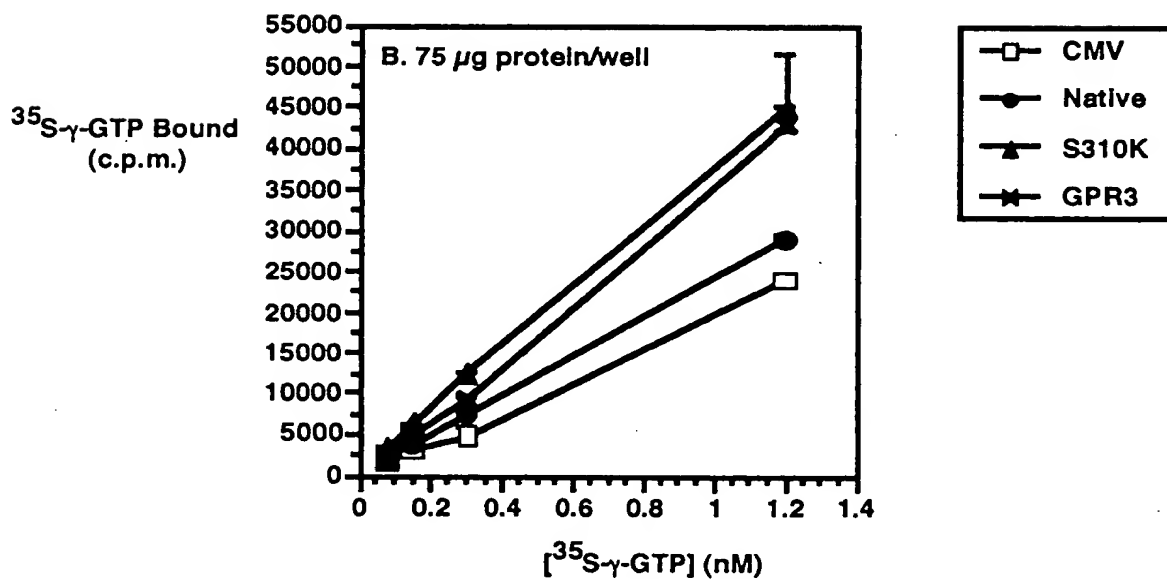
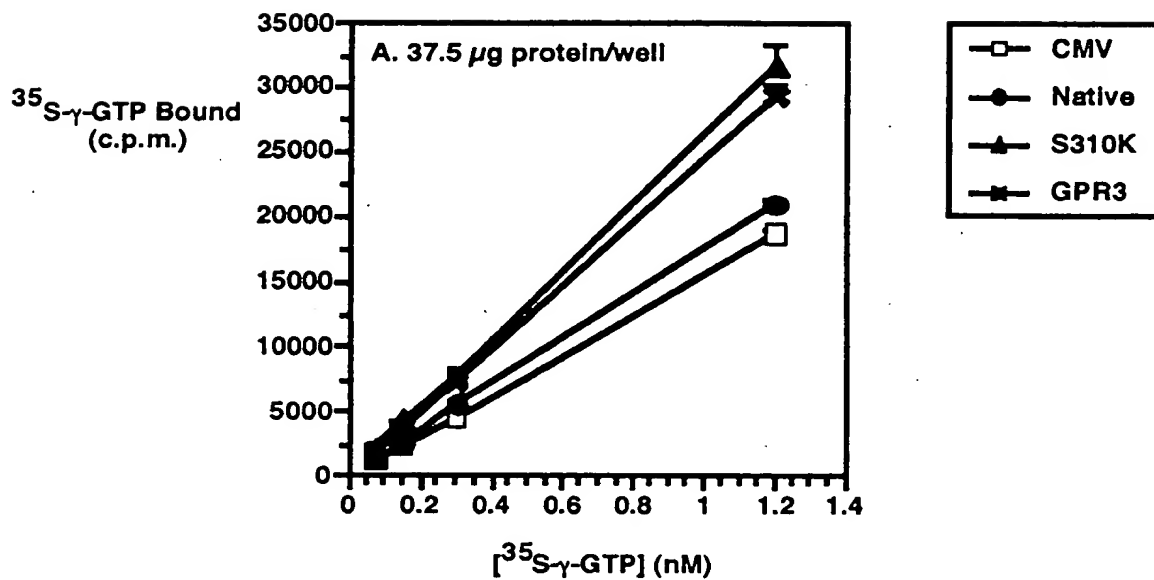
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FIGURE 10



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FIGURE 11



09060188-041498

SECRET

1 H H - - - - - 10 20 30 40 GPR 3 protein
1 H N A S A A S L N D S Q V V V V A A E G A A A A A T A A G G P D T G E X G P P A GPR 6 protein
1 H N - - - - - E D L K V N L - - - - - S G L GPR 12 protein

50 60 70 80
8 F L A K L S A G S G N V N V S S V G P A E G P T G F A A P L P S P K A K D V V L GPR 3 protein
41 A A A - L G A G G G A N G S L E L S S Q L S A G P P G L L L P A V N P A D V L L L GPR 6 protein
13 E R D Y L D A A A A E N I S A A V S S R V P A V E P E P E L - V V N P A D I V L GPR 12 protein

90 100 110 120
48 C I S G T L V S C E N A L V V A I I V G T P A F R A P H F L L V G S L A V A D L GPR 3 protein
80 C V S G T V I A G E N A L V V A L I A S T P A L R T P H F V L V G S L A T A D L GPR 6 protein
52 C T S G T L I S C E N A I V V L I I F H N F S L R A P H F L L I G S L A L A D L GPR 12 protein

130 140 150 160
88 L A G L G L V L H F A A V F C I G S A E H S L V L V G V L A M A F T A S I G S L GPR 3 protein
120 L A G C G L I L H F V F Q Y L V P S E T V S L L T V G P L V A S F A A S V S S L GPR 6 protein
92 L A G I G L I T N F V F A Y L L Q S E A T K L V T I G L I V A S F S A S V C S L GPR 12 protein

170 180 190 200
128 L A I T V D R Y L S L Y N A L T Y Y S E T T V T R T Y V H L A L V X G G A L G L GPR 3 protein
160 L A I T V D R Y L S L Y N A L T Y Y S R R T L L G V H L L L A A T N T V S L G L GPR 6 protein
132 L A I T V D R Y L S L Y Y A L T Y H S E R T V T F T Y V H L V H L X G T S I C L GPR 12 protein

210 220 230 240
168 G L L P V L A X N C L D G L T T C G V V Y P L S K N H L V V L A I A F F H V F G GPR 3 protein
200 G L L P V L G X N C L A E R A A C S V V R P L A R S H V A L L S A A F F H V F G GPR 6 protein
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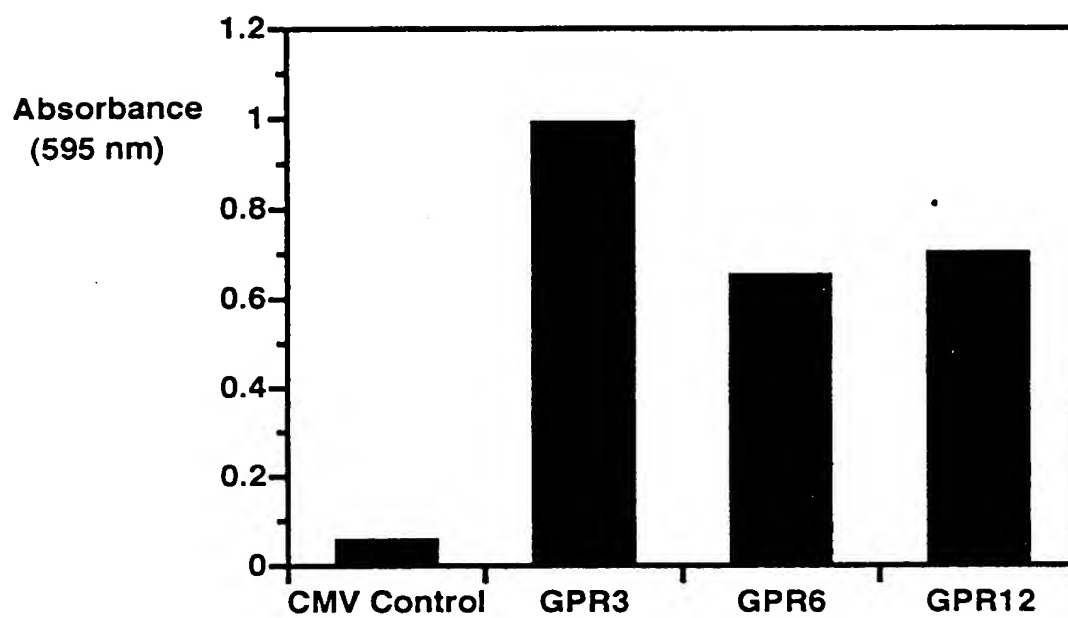
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208 I H L Q L Y A Q I C R I V C R H A Q Q I A L Q R H L L P A S H Y V A T R K G I A GPR 3 protein
240 I H L H L Y V R I C Q V V R H A H Q I A L Q Q H C L A P P H L A A T R K G V G GPR 6 protein
212 L H L Q L Y I Q I C K I V M R H A H Q I A L Q H H F L A T S H Y V T T R K G V S GPR 12 protein

290 300 310 320
248 T L A V V L G A F A A C A L P F T V Y C L L G D A H S P F L Y T Y L T L L P A T GPR 3 protein
280 T L A V V L G T F G A S A L P F A I Y C V V G S H E D P A V Y T Y A T L L P A T GPR 6 protein
252 T L A I I L G T F A A C A M P F T L Y S L I A D Y T Y E S I Y T Y A T L L P A T GPR 12 protein

330 340 350 360
288 Y N S H I N P I I Y A F R N Q D V Q K V L X A V C C C C S S S K I P F R S R S P GPR 3 protein
320 Y N S H I N P I I Y A F R N Q E I Q R A L A L L L C G C F Q S K V P F R S R S P GPR 6 protein
292 Y N S I I N F V I Y A F R N Q E I O K A L C L I C C G C I P S S L A Q R A R S P GPR 12 protein

328 S D V GPR 3 protein
360 S E V GPR 6 protein
332 S D V GPR 12 protein

FIGURE 13



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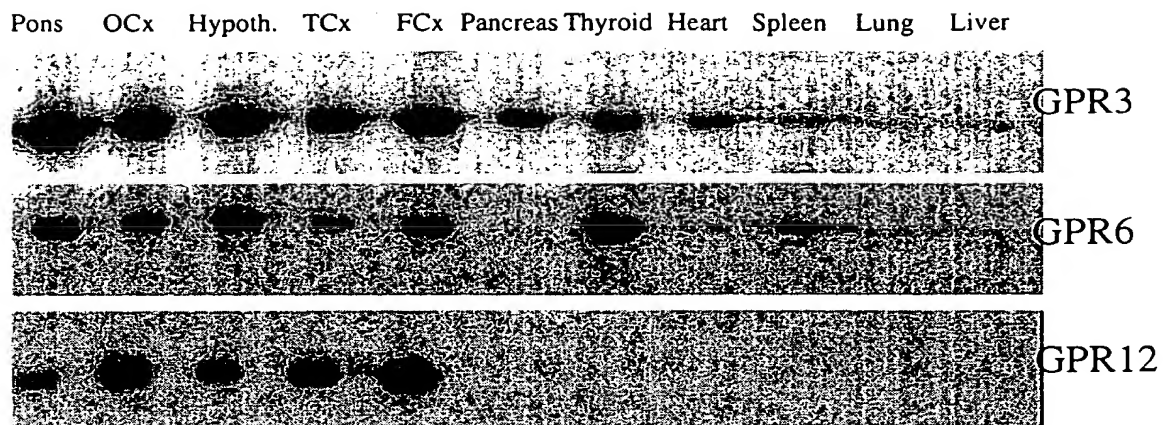
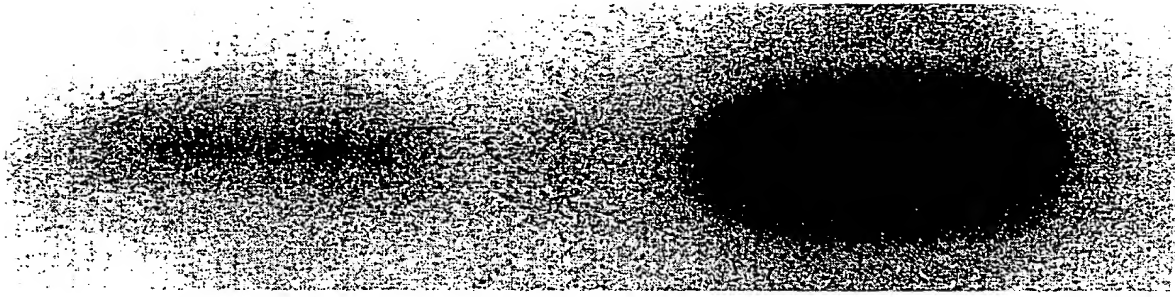


FIGURE 14

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 867740" 88709060

FIGURE 15



Control Tissue

Epilepsy Biopsy

09060188 041498
864T40" 88T09060

FIGURE 16

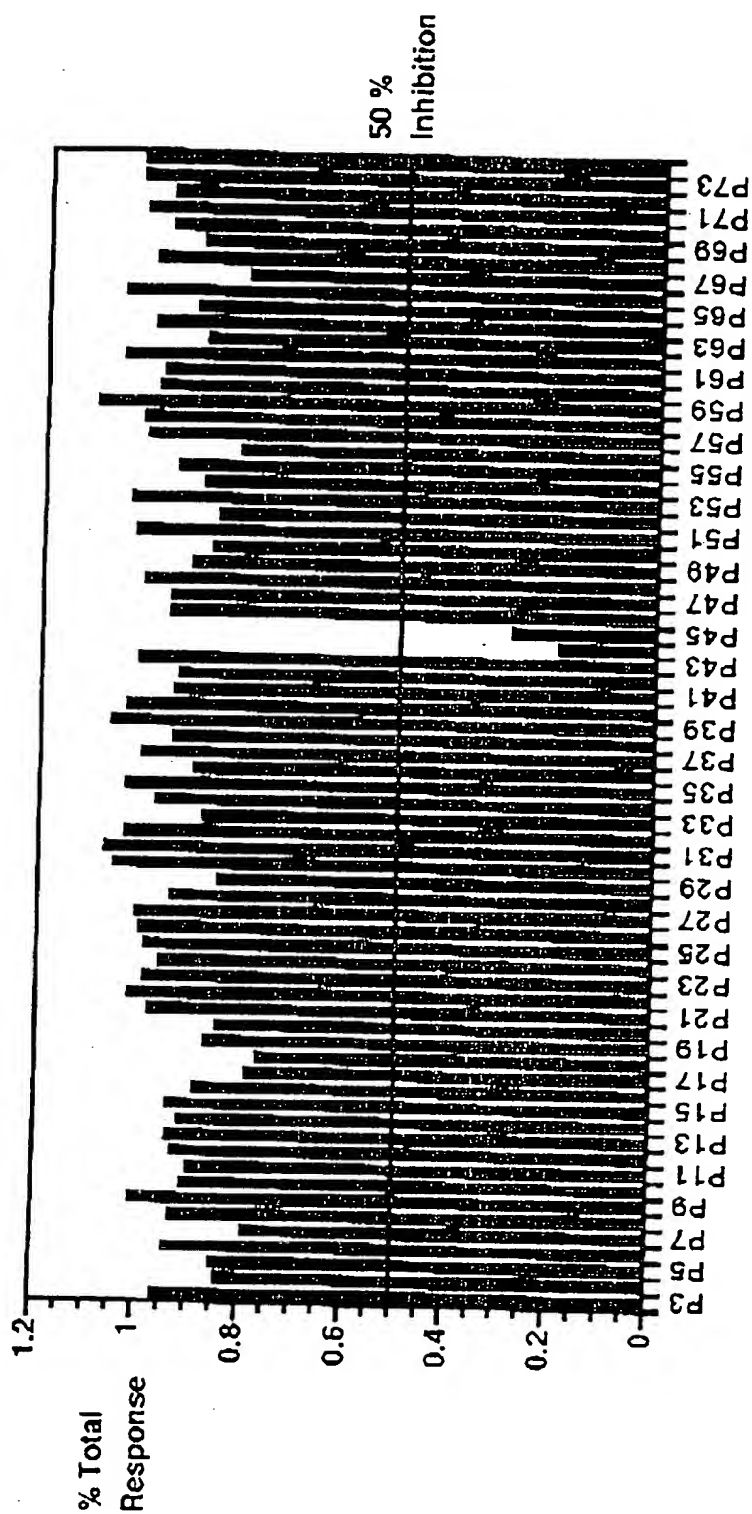


FIGURE 17

